1/2 L-Xvlose (CH₃)₂CO,H₂SO₄,CuSO₄ then NH₄OH HCI/ then NaHCO₃/H₂O H₂O C6H5COCI/ CH₃COOH pyridine C₅H₅N-CHCI₅ H_2SO_4 HO₁₁ (5)C(lm)₂ glycoside /[CH2CI]2 condensations CH3SI)3SIH,AIBN BzO /Toluene BzO O_C_Im 1) CH₃COOH 85%, H₂SO₄ 2) (CH₃CO)₂O, pyridine 12 NH₃-NH₂-H₂O / pvridine-CH3COOH Base glycoside condensations 1) C₆H₅OC(S)CI, DMAP / CH₃CN 2) Bu₃SnH, AIBN / dioxane BzO Base Base CH₃ONa/CH₃OH CH₃ONa / THF Base NH₃/CH₃OH NH₃/CH₃OH HO Base HO. $H^*(R = mMTr)$ or Base 16 F*(R = TBDPSi)RCI/pyridine NH₃/CH₃OH (R = BzouAc) RCI/pyridine

FIG. 1

Base 1) C₆H₅0C(S)Cl.

DMAP / CH3CN

 Bu₃SnH, AIBN / dioxane Base

Legend to Figure 1

HC

17

Base 1) C₆H₅0C(S)CI.

 Bu₃SnH, AIBN / toluene

Scheme I: Bases = purines or pyrimidines, optionally appropriately protected; R = Benzoyl (Bz), acetyl (Ac), monomethoxytrityl (mMTr), or tert-butyldiphenylsilyl

9

RO-

2/2

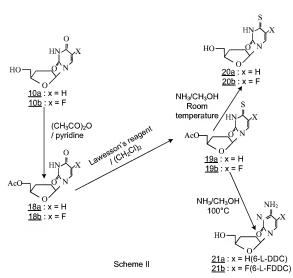


FIG. 2